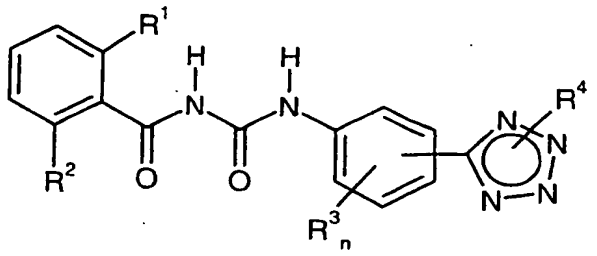
Patent Claims

1. Compounds of the formula (I)



(I)

in which

R^1 represents halogen,

R^2 represents hydrogen or halogen,

R^3 represents halogen, alkyl or halogenoalkyl,

n represents 0, 1 or 2 and

R^4 represents hydrogen, optionally substituted alkyl, optionally substituted alkenyl, alkoxyalkyl, alkoxycarbonylalkyl, alkylcarbonyloxyalkyl, alkylsulphonyl, diaminocarbonyl; in each case optionally substituted aryl, arylalkyl or arylsulphonyl; in each case optionally substituted cycloalkyl or cycloalkylalkyl or in each case optionally substituted heterocyclyl or heterocyclylalkyl.

2. Compounds of the formula (I) according to Claim 1

in which

R^1 represents fluorine or chlorine,

R^2 represents hydrogen, fluorine or chlorine,

R^3 represents fluorine, chlorine, bromine, C_1-C_4-alkyl or C_1-C_4-halogenoalkyl,

n represents 0, 1 or 2,

R^4 represents hydrogen, C_1-C_6-alkyl, C_1-C_4-halogenoalkyl, C_2-C_4-alkenyl, C_2-C_4-halogenoalkenyl, C_1-C_4-alkoxy-C_1-C_4-alkyl, C_1-C_4-alkoxy-carbonyl-C_1-C_4-alkyl, C_1-C_4-alkyl-carbonyloxy-C_1-C_4-alkyl; C_1-C_4-alkylsulphonyl, di-(C_1-C_4-alkyl)-aminocarbonyl, or represents phenyl, benzyl or phenylsulphonyl, each of which is optionally monosubstituted to trisubstituted by identical or different substituents from the series consisting of halogen, nitro, cyano, C_1-C_4-alkyl, C_1-C_4-alkoxy, C_1-C_4-halogenoalkyl and C_1-C_4-halogenoalkoxy; or represents cyclopentyl, cyclohexyl or cyclohexyl-C_1-C_2-alkyl, each of which is optionally monosubstituted to trisubstituted by identical or different substituents from the series consisting of C_1-C_4-alkyl and C_1-C_4-alkoxy, or represents five- or six-membered heterocyclyl or five- or six-membered heterocyclyl-C_1-C_2-alkyl, each of which has one or two hetero atoms, such as N, O or S atoms, and each of which is optionally monosubstituted to trisubstituted by identical or different substituents from the series consisting of C_1-C_4-alkyl and C_1-C_4-alkoxy.

3. Compounds of the formula (I) according to Claim 1

in which

R^1 represents fluorine or chlorine,

R^2 represents hydrogen, fluorine or chlorine,

R^3 represents fluorine, chlorine, methyl or trifluoromethyl,

n represents 0, 1 or 2,

R^4 represents hydrogen, C_1-C_6-alkyl, C_2-C_4-alkenyl, C_1-C_2-halogenoalkyl or C_2-C_4-halogenoalkenyl having in each case 1 to 3 identical or different halogen atoms from the series consisting of fluorine, chlorine and bromine; C_1-C_4-alkoxy-C_1-C_2-alkyl, C_1-C_4-alkoxy-carbonyl-C_1-C_2-alkyl, C_1-C_4-alkyl-carbonyloxy-C_1-C_2-alkyl, C_1-C_2-alkylsulfonyl, di-(C_1-C_2-alkyl)-aminocarbonyl; or represents phenyl, benzyl or phenylsulphonyl, each of which is optionally monosubstituted to trisubstituted by identical or different substituents from the series consisting of halogen, nitro, cyano, C_1-C_4-alkyl, C_1-C_4-alkoxy, C_1-C_2-halogenoalkyl and C_1-C_2-halogenoalkoxy having in each case 1 to 3 identical or different halogen atoms; or represents cyclopentyl, cyclohexyl or cyclohexylmethyl, each of which is optionally monosubstituted to trisubstituted by identical or different substituents from the series consisting of C_1-C_4-alkyl and C_1-C_4-alkoxy; or represents tetrahydrofuranyl, tetrahydrofuranylmethyl, tetrahydropyranyl or tetrahydropyranylmethyl, each of which is optionally monosubstituted to trisubstituted by identical or different substituents from the series consisting of C_1-C_4-alkyl and C_1-C_4-alkoxy.

4. Compounds of the formula (I) according to Claim 1

in which

R^1 represents fluorine or chlorine,

R^2 represents hydrogen, fluorine or chlorine,

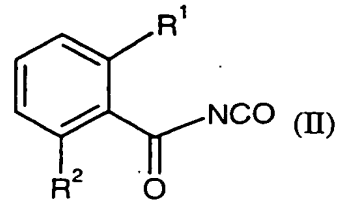
R^3 represents fluorine, chlorine or trifluoromethyl,

n represents 0, 1 or 2,

R^4 represents hydrogen; methyl, ethyl, n- or i-propyl, n-, i-, s- or t-butyl; 1-ethyl-1-methyl-propyl, 1,1-dimethylpropyl, 2-methyl-2-propenyl, fluoromethyl, difluoromethyl, trifluoromethyl, 1,1-difluoroethyl, 2,2,2-trifluoroethyl, 3,4,4-trifluoro-3-butenyl, 4,4-difluoro-3-butenyl, methoxymethyl, ethoxymethyl, methoxyethyl, ethoxyethyl, methoxycarbonylmethyl, ethoxycarbonylmethyl, methoxycarbonylethyl, ethoxycarbonylethyl, methylcarbonyloxymethyl, ethylcarbonyloxymethyl, methylcarbonyloxyethyl, ethylcarbonyloxyethyl, methylsulphonyl, ethylsulphonyl, dimethylaminocarbonyl, methylethylaminocarbonyl, diethylaminocarbonyl; represents phenyl, benzyl or phenylsulphonyl, each of which is optionally monosubstituted or disubstituted by identical or different substituents from the series consisting of fluorine, chlorine, bromine, methyl, methoxy, trifluoromethyl or trifluoromethoxy; or represents cyclohexyl, tetrahydropyranyl or tetrahydropyranylmethyl, each of which is optionally monosubstituted or disubstituted by identical or different substituents from the series consisting of methyl, ethyl, methoxy or ethoxy.

5. Process for the preparation of compounds of the formula (I) according to Claim 1, characterized in that

a) compounds of the formula (II)

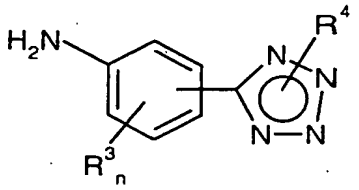


(II) (II)

in which

R^1 and R^2 are as stated above

are reacted with compounds of the formula (III)



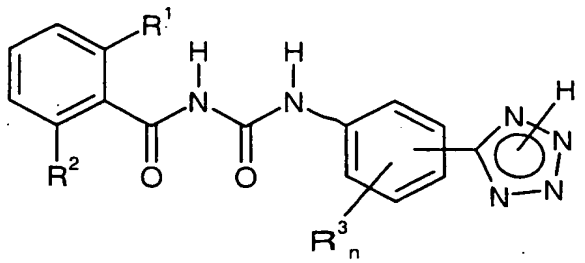
(III)

in which

R^3, n and R^4 are as stated above

in the presence of a diluent; and,

b) if appropriate, the resulting compounds of the formula (Ia)



(Ia)

in which

R^1, R^2, R^3 and n are as stated above

are reacted with compounds of the formula (IV)

$$E\text{-}R^{4\text{-}1} \qquad (IV)$$

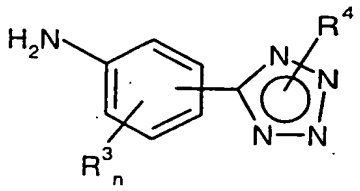
in which

$R^{4\text{-}1}$ is as stated above for R^4, with the exception of hydrogen, and

E represents an anionic leaving group

in the presence of a diluent and, if appropriate, in the presence of an acid acceptor.

6. Compounds of the formula (III)



(III)

in which

R^3 represents chlorine, fluorine, methyl or trifluoromethyl,

n represents 1 or 2, and

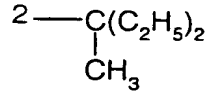
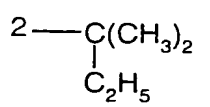
R^4 is as stated above and the position of substitution of the tetrazole on the phenyl ring is in the 2-, 3- or 4-position.

7. Compounds of the formula (III) according to Claim 6

in which

n represents 0 and

R^4 and the position of the substitution of the tetrazole on the phenyl ring are as stated in the table.

R^4	Position of substitution of the tetrazole on the phenyl ring
	4
	4
2-CHF_2	3 or 4
1-CHF_2	3 or 4
H	3 or 4
2-C_4H_9-t	3 or 4

8. Pesticides and herbicides, characterized in that they contain at least one compound of the formula (I) according to Claim 1.

9. Method of controlling animal pests and undesired vegetation cover, characterized in that, compounds of the formula (I) according to Claim 1 are allowed to act on pests and/or their environment.

10. Use of compounds of the formula (I) according to Claim 1 for controlling animal pests and undesired vegetation cover.

11. Process for the preparation of pesticides and herbicides, characterized in that compounds of the formula (I) according to Claim 1 are mixed with extenders and/or surfactants.

12. Use of compounds of the formula (I) according to Claim 1 for the preparation of pesticides and herbicides.